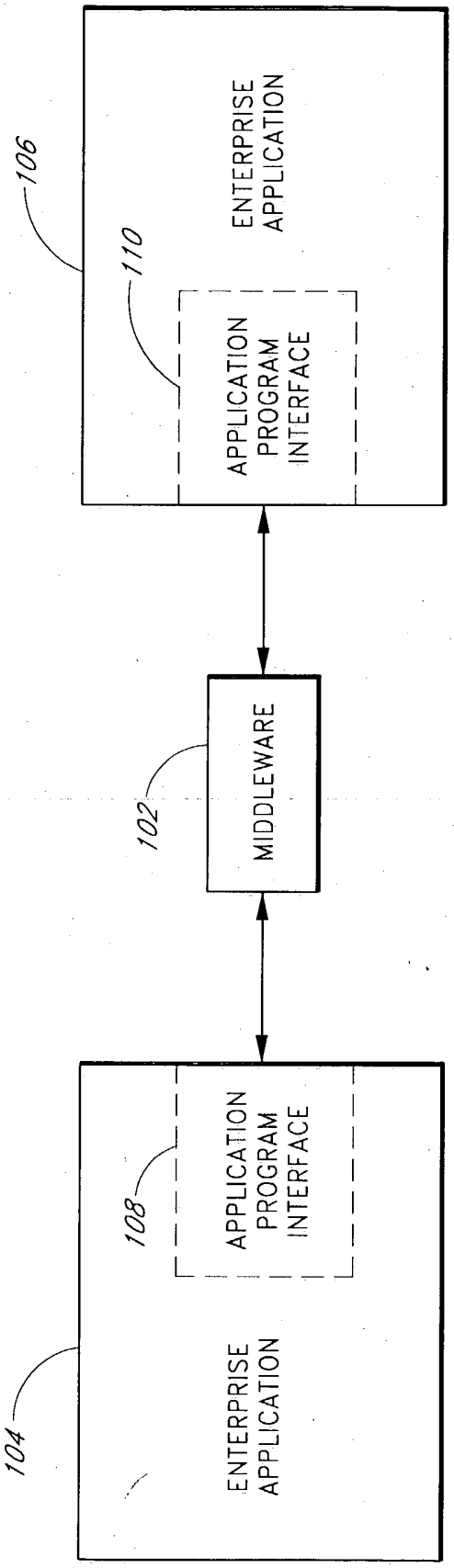

106
ENTERPRISE APPLICATION
110
APPLICATION PROGRAM INTERFACE
102
MIDDLEWARE
108
APPLICATION PROGRAM INTERFACE
104
ENTERPRISE APPLICATION

FIG. 1A

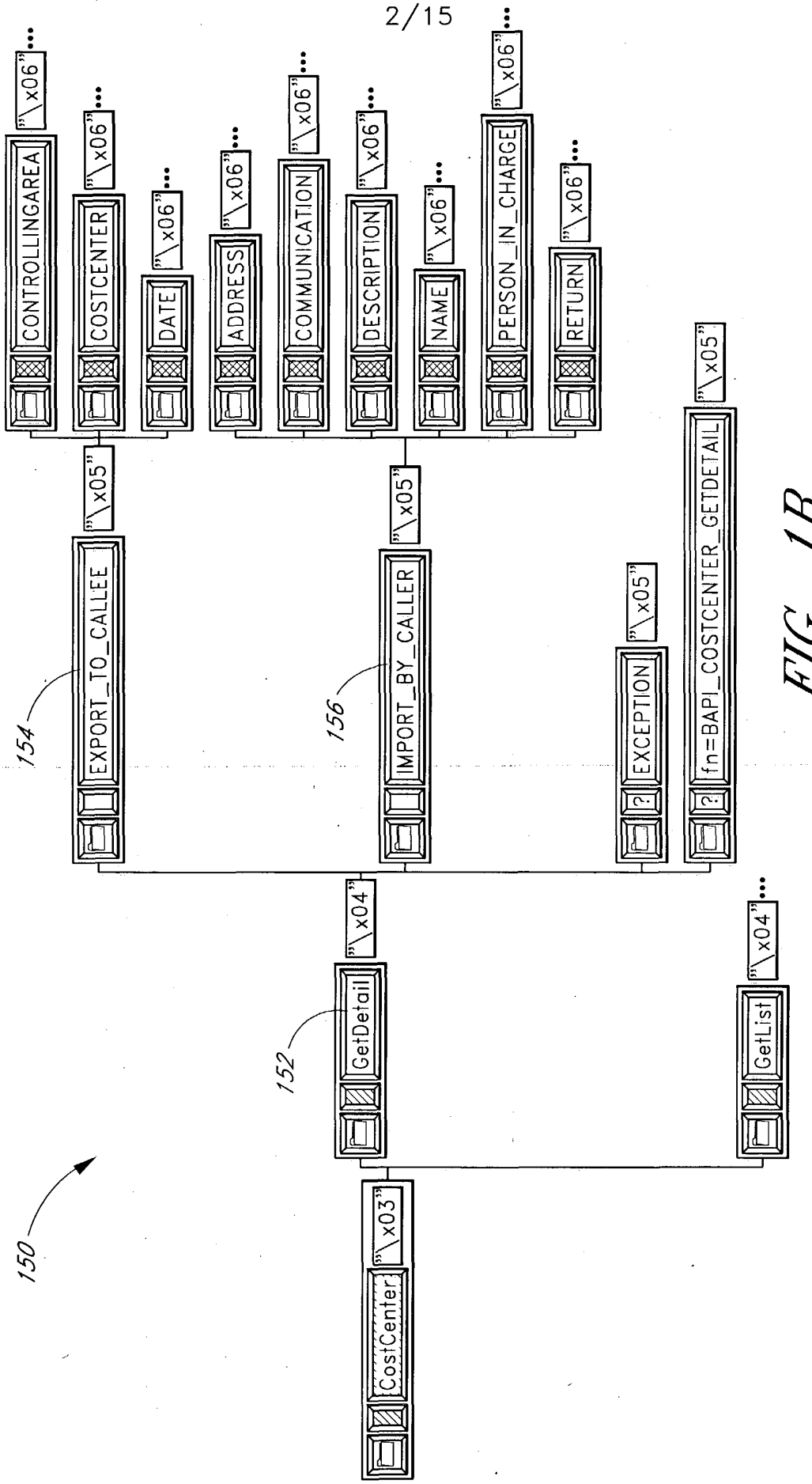


FIG. 1B
(PRIOR ART)

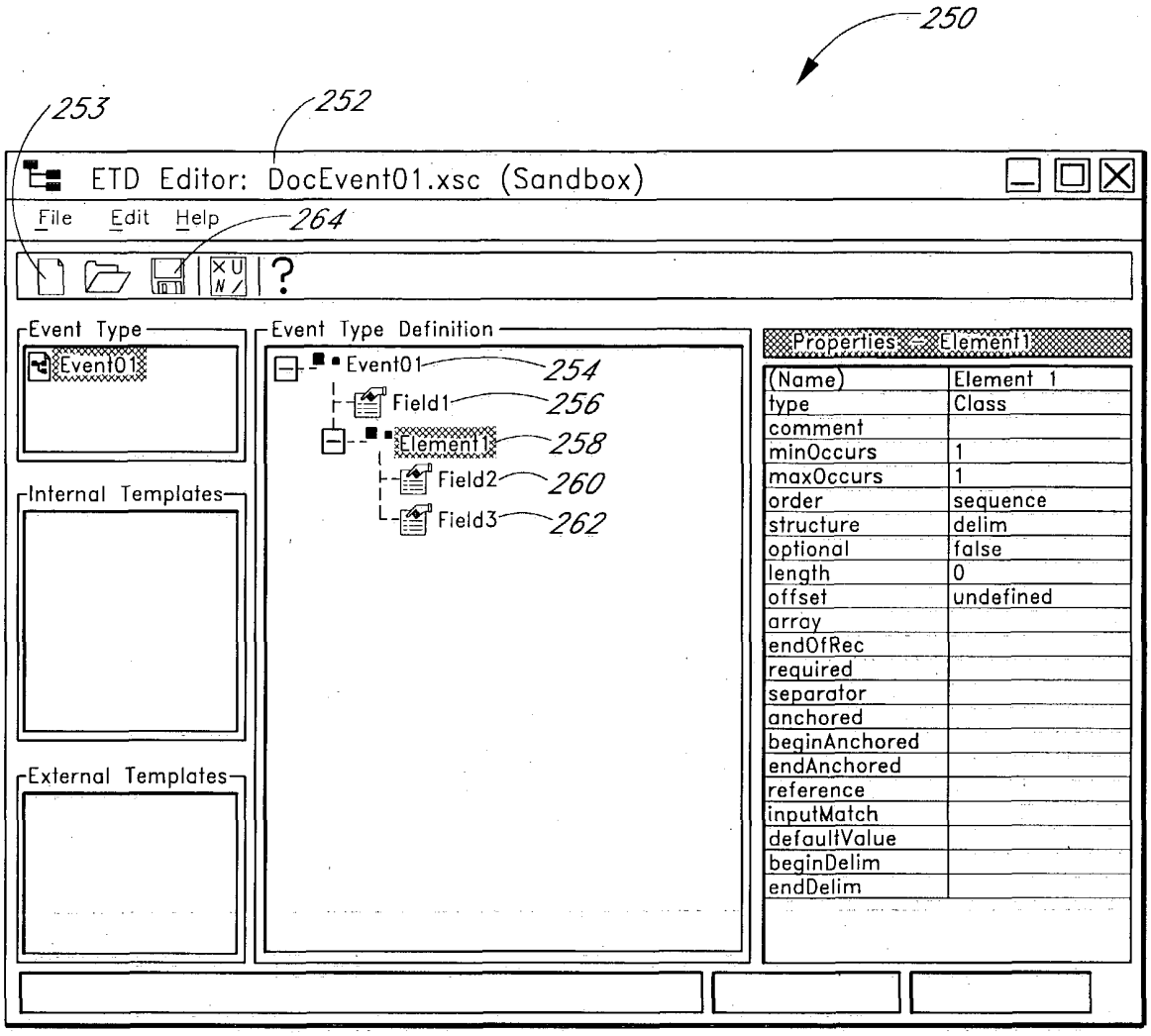

250
253
252
ETD Editor: DocEvent01.xsc (Sandbox)
File Edit Help
264
Event Type
Event01
Internal Templates
External Templates
Event Type Definition
Event01
254
Field1
256
Element1
258
Field2
260
Field3
262
Properties - Element1
(Name) Element 1
type Class
comment
minOccurs 1
maxOccurs 1
order sequence
structure delim
optional false
length 0
offset undefined
array
endOfRec
required
separator
anchored
beginAnchored
endAnchored
reference
inputMatch
defaultValue
beginDelim
endDelim

FIG. 2A

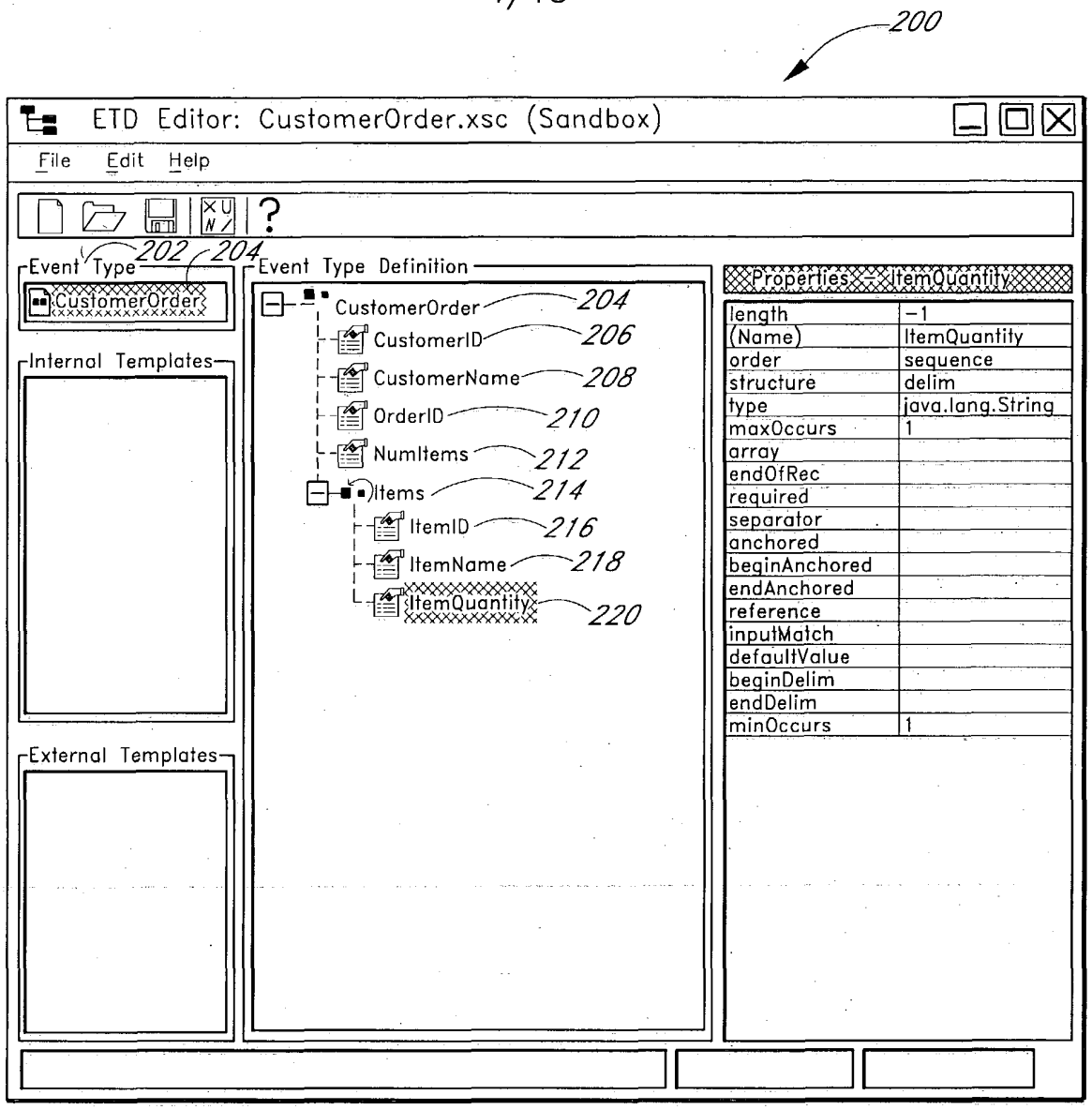

200
ETD Editor: CustomerOrder.xsc (Sandbox)
File Edit Help
Event Type
202
204
CustomerOrder
Internal Templates
External Templates
Event Type Definition
CustomerOrder 204
CustomerID 206
CustomerName 208
OrderID 210
NumItems 212
Items 214
ItemID 216
ItemName 218
ItemQuantity 220
Properties - ItemQuantity
length -1
(Name) ItemQuantity
order sequence
structure delim
type java.lang.String
maxOccurs 1
array
endOfRec
required
separator
anchored
beginAnchored
endAnchored
reference
inputMatch
defaultValue
beginDelim
endDelim
minOccurs 1

FIG. 2B

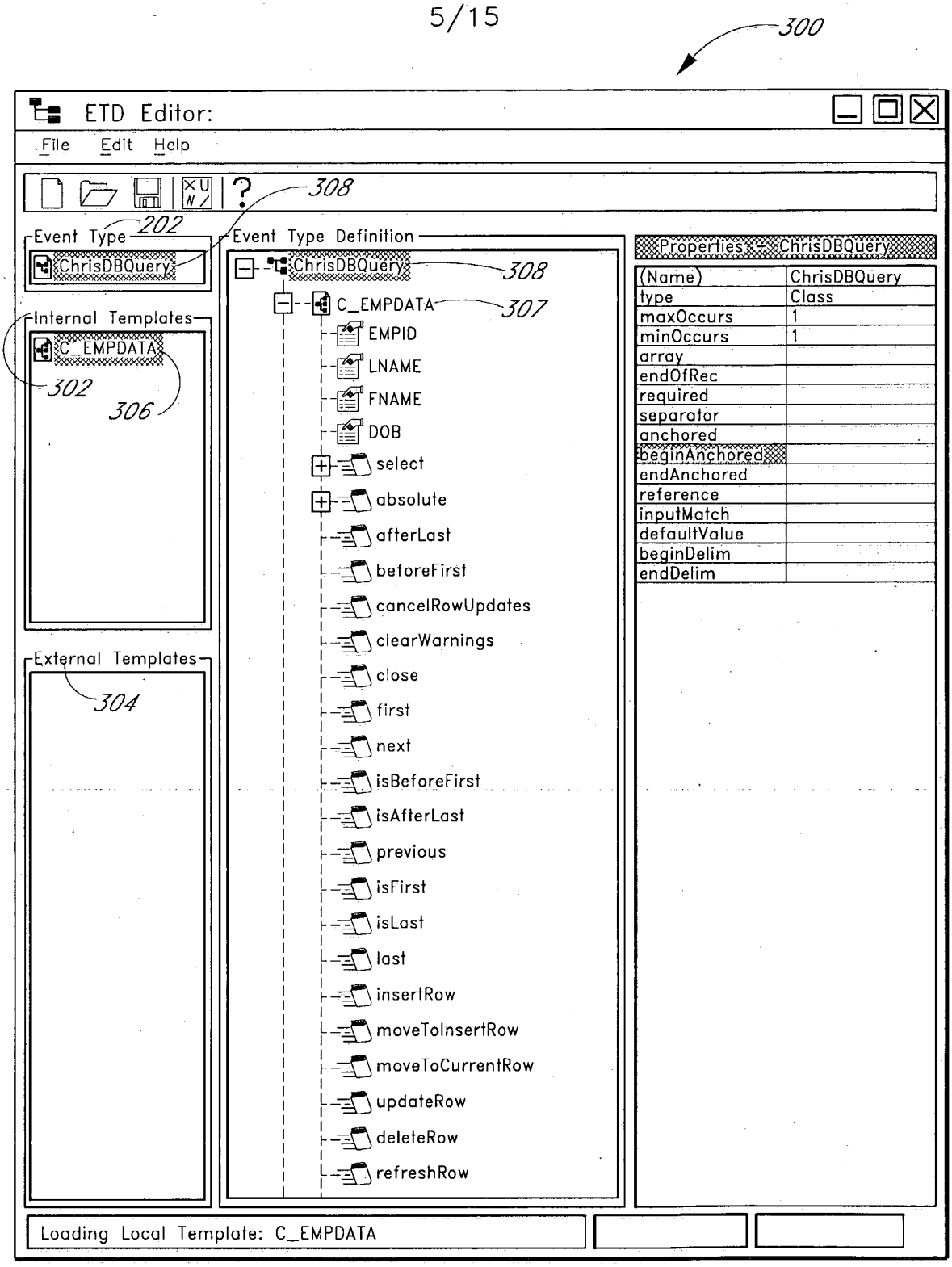

300
ETD Editor:
File
Edit
Help
308
Event Type
202
ChrisDBQuery
Internal Templates
C_EMPDATA
302
306
External Templates
304
Event Type Definition
ChrisDBQuery
308
C_EMPDATA
307
EMPID
LNAME
FNAME
DOB
select
absolute
afterLast
beforeFirst
cancelRowUpdates
clearWarnings
close
first
next
isBeforeFirst
isAfterLast
previous
isFirst
isLast
last
insertRow
moveToInsertRow
moveToCurrentRow
updateRow
deleteRow
refreshRow
Properties - ChrisDBQuery
(Name) ChrisDBQuery
type Class
maxOccurs 1
minOccurs 1
array
endOfRec
required
separator
anchored
beginAnchored
endAnchored
reference
inputMatch
defaultValue
beginDelim
endDelim
Loading Local Template: C_EMPDATA

FIG. 3

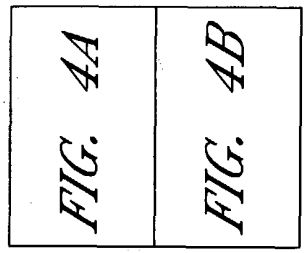


FIG. 4A
FIG. 4B

FIG. 4

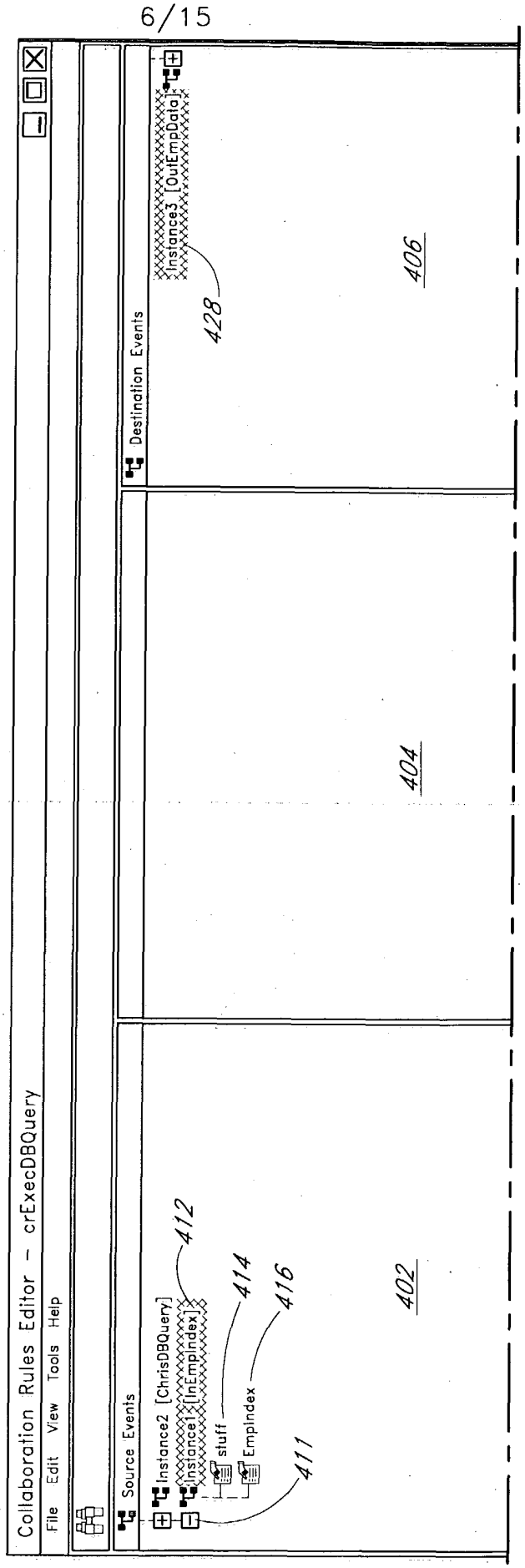

400
Collaboration Rules Editor - crExecDBQuery
File Edit View Tools Help
Source Events
Destination Events
Instance2 [ChrisDBQuery]
Instance1 [InEmpIndex]
stuff
EmpIndex
Instance3 [OutEmpData]
402
404
406
411
412
414
416
428

FIG. 4A

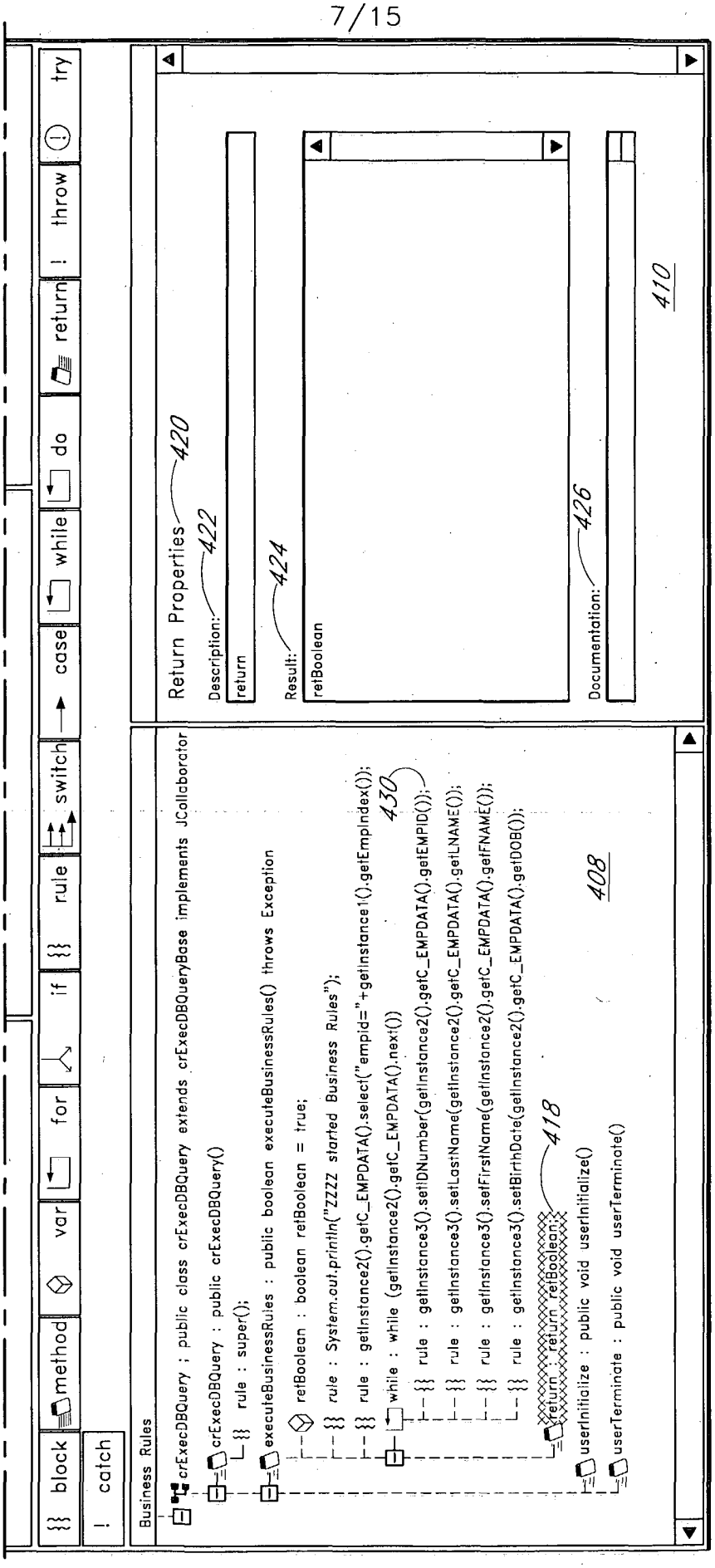

block
method
var
for
if
rule
switch
case
while
do
return
throw
try
catch
Business Rules
crExecDBQuery : public class crExecDBQuery extends crExecDBQueryBase implements JCollaborator
crExecDBQuery : public crExecDBQuery()
rule : super();
executeBusinessRules : public boolean executeBusinessRules() throws Exception
retBoolean : boolean retBoolean = true;
rule : System.out.println("ZZZZ started Business Rules");
rule : getInstance2().getC_EMPDATA().select("empid="+getInstance1().getEmpIndex());
while : while (getInstance2().getC_EMPDATA().next())
rule : getInstance3().setIDNumber(getInstance2().getC_EMPDATA().getEMPID());
rule : getInstance3().setLastName(getInstance2().getC_EMPDATA().getLNAME());
rule : getInstance3().setFirstName(getInstance2().getC_EMPDATA().getFNAME());
rule : getInstance3().setBirthDate(getInstance2().getC_EMPDATA().getDOB());
return : return retBoolean;
userInitialize : public void userInitialize()
userTerminate : public void userTerminate()
Return Properties
Description:
return
Result::
retBoolean
Documentation:
418
420
422
424
426
430
408
410

FIG. 4B

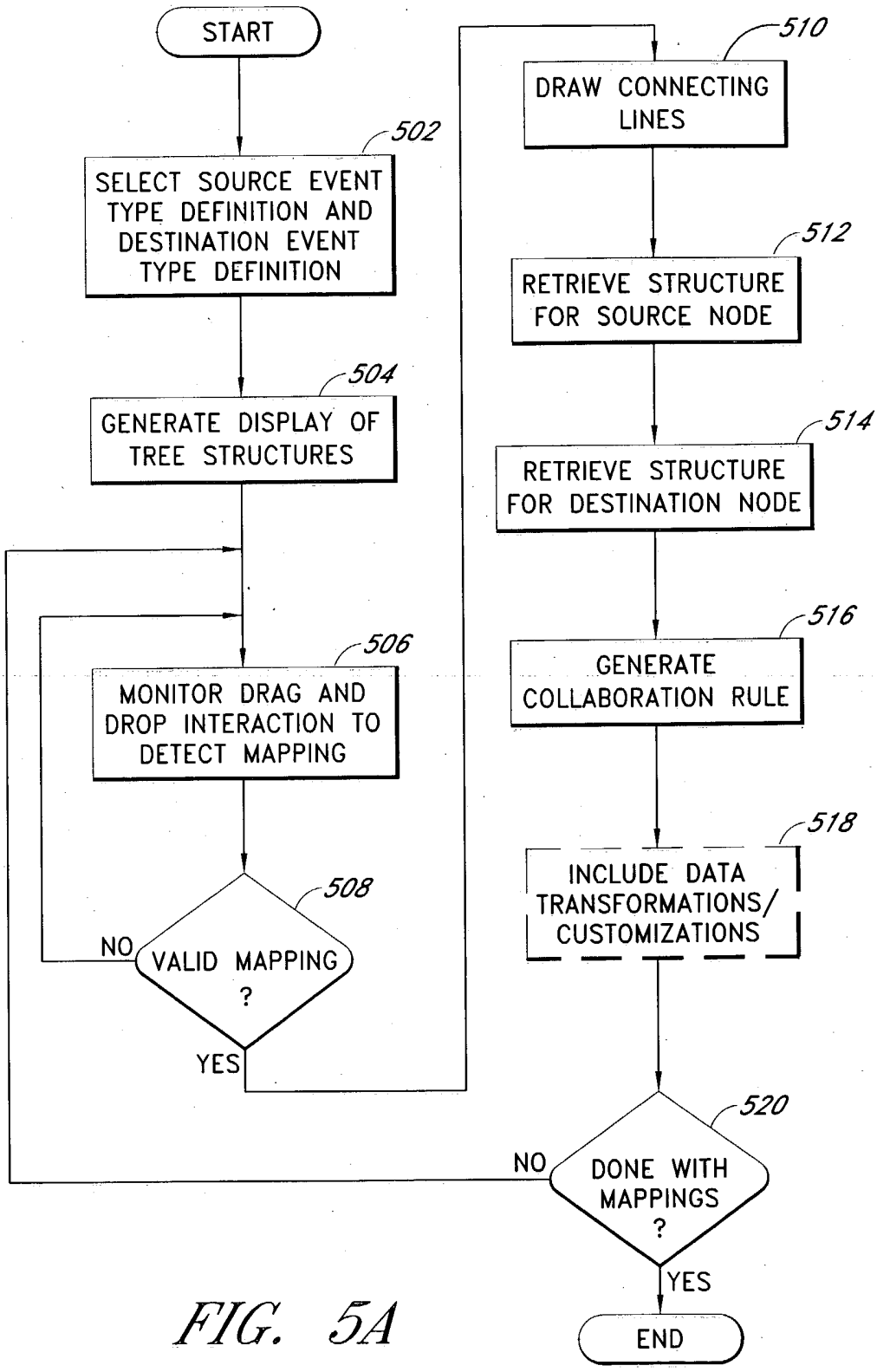

START
502
SELECT SOURCE EVENT TYPE DEFINITION AND DESTINATION EVENT TYPE DEFINITION
504
GENERATE DISPLAY OF TREE STRUCTURES
506
MONITOR DRAG AND DROP INTERACTION TO DETECT MAPPING
508
NO
VALID MAPPING ?
YES
510
DRAW CONNECTING LINES
512
RETRIEVE STRUCTURE FOR SOURCE NODE
514
RETRIEVE STRUCTURE FOR DESTINATION NODE
516
GENERATE COLLABORATION RULE
518
INCLUDE DATA TRANSFORMATIONS/ CUSTOMIZATIONS
520
NO
DONE WITH MAPPINGS ?
YES
END

FIG. 5A

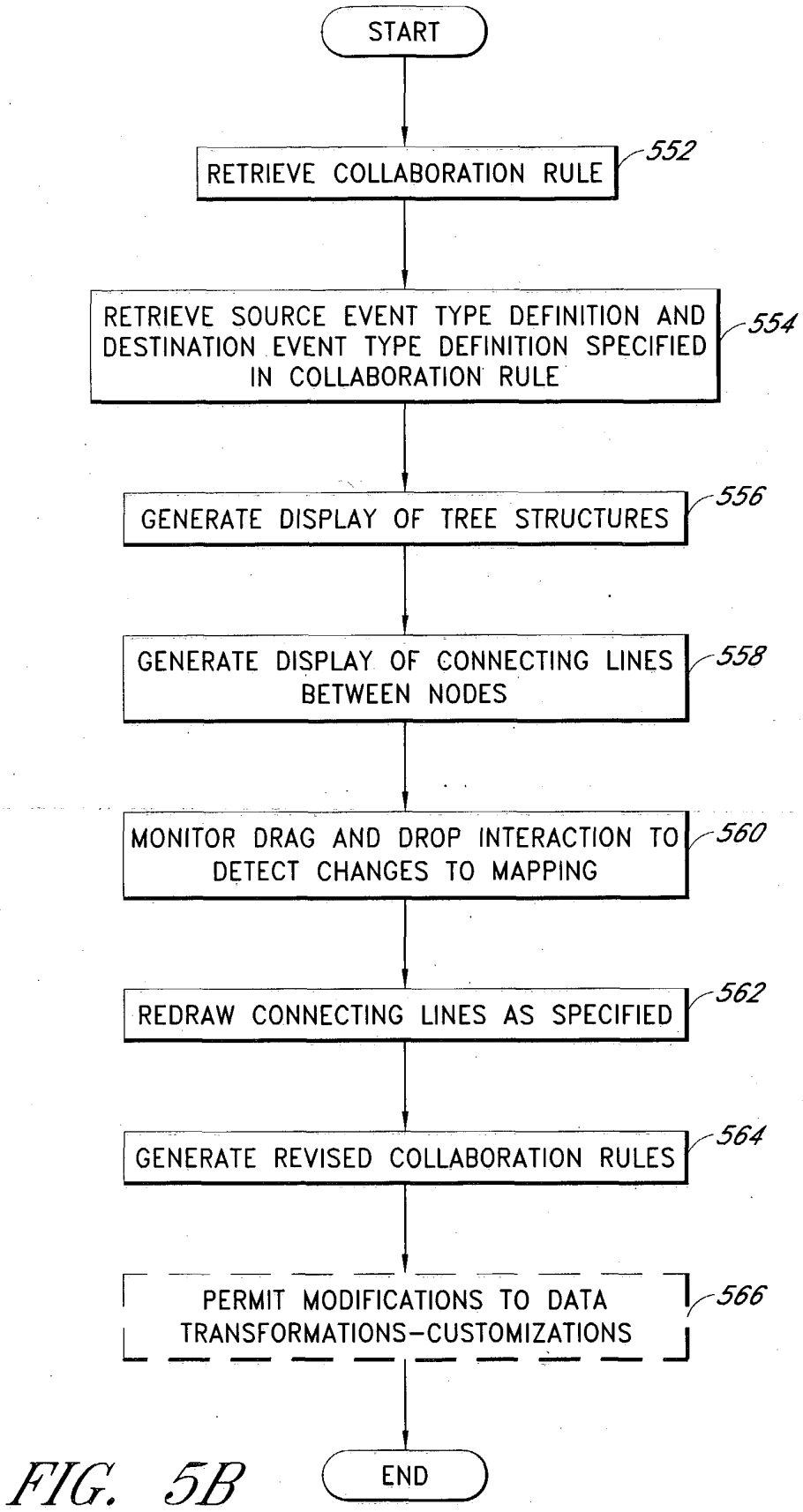
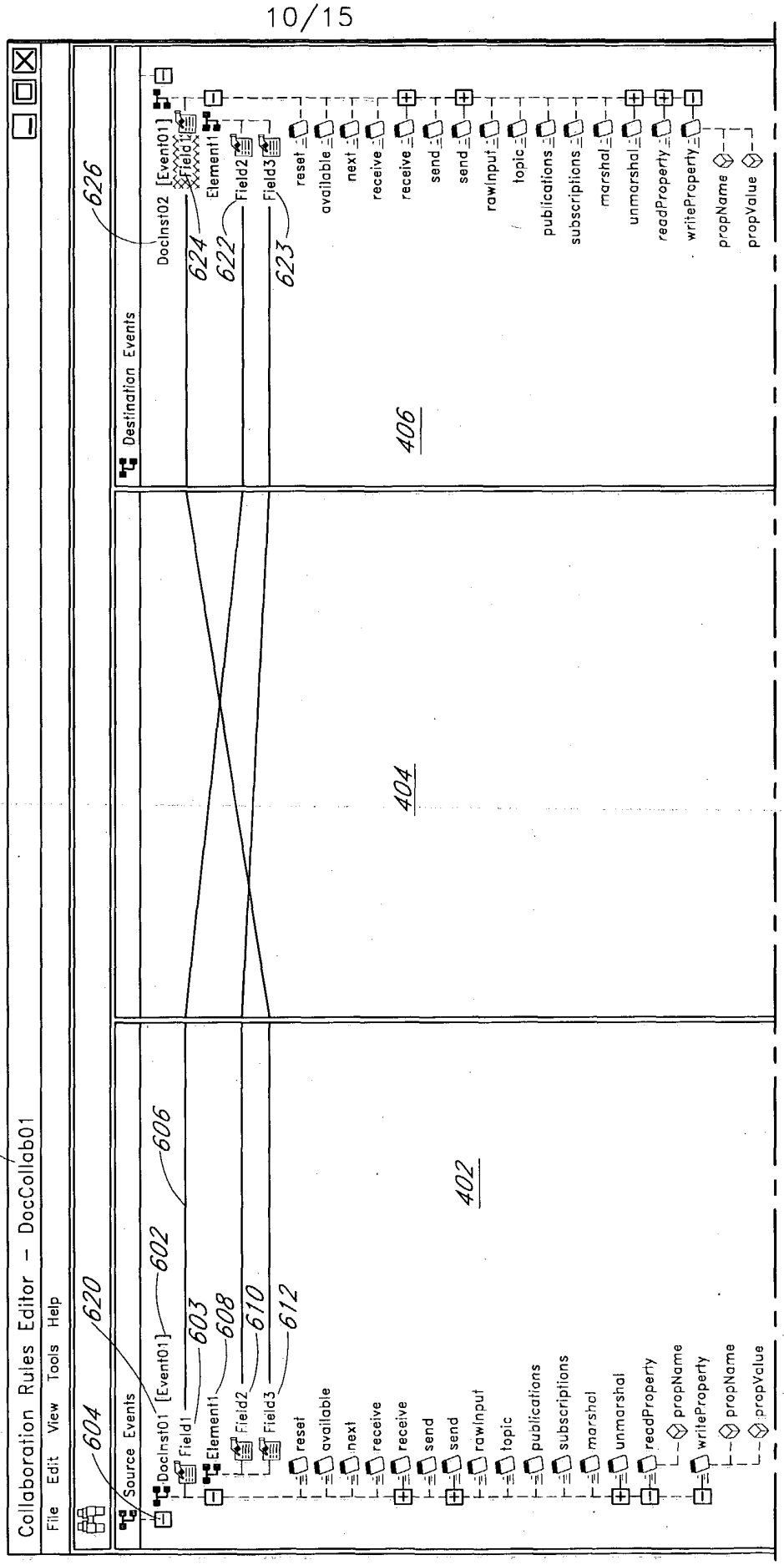

START
RETRIEVE COLLABORATION RULE
552
RETRIEVE SOURCE EVENT TYPE DEFINITION AND DESTINATION EVENT TYPE DEFINITION SPECIFIED IN COLLABORATION RULE
554
GENERATE DISPLAY OF TREE STRUCTURES
556
GENERATE DISPLAY OF CONNECTING LINES BETWEEN NODES
558
MONITOR DRAG AND DROP INTERACTION TO DETECT CHANGES TO MAPPING
560
REDRAW CONNECTING LINES AS SPECIFIED
562
GENERATE REVISED COLLABORATION RULES
564
PERMIT MODIFICATIONS TO DATA TRANSFORMATIONS–CUSTOMIZATIONS
566
END

FIG. 5B

FIG. 6

FIG. 6A

FIG. 6B



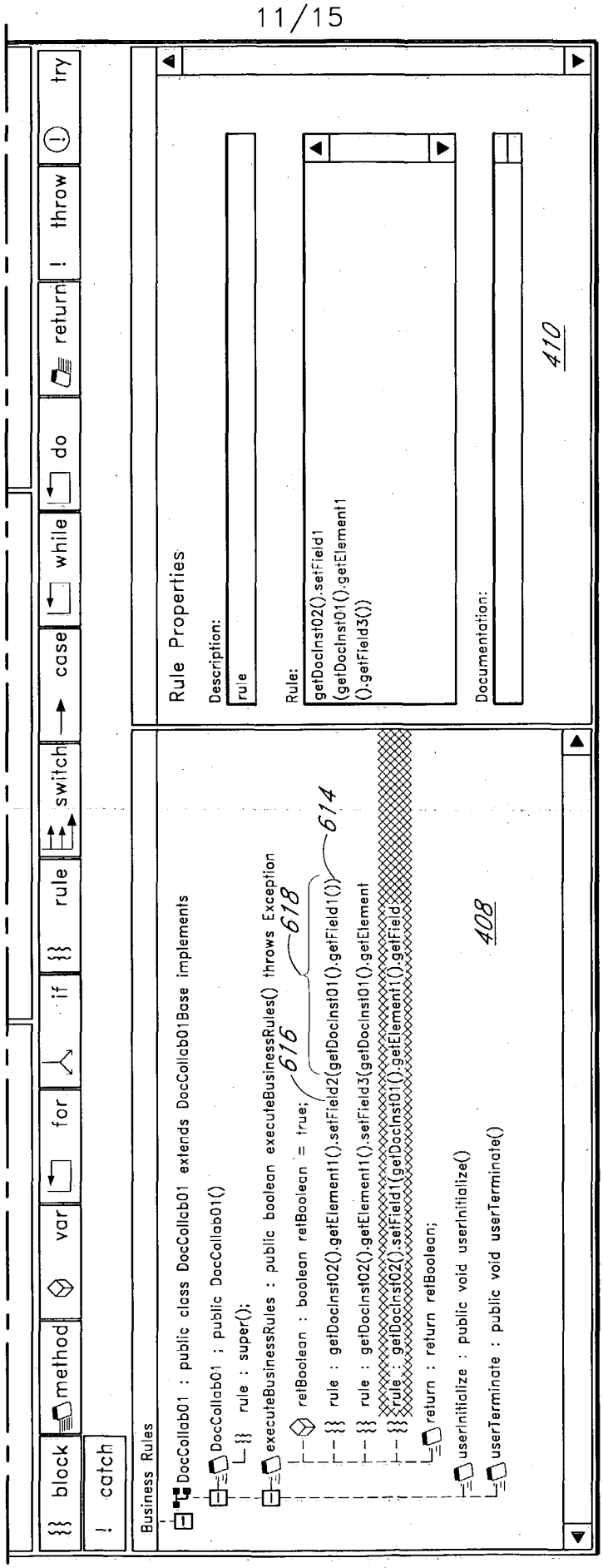
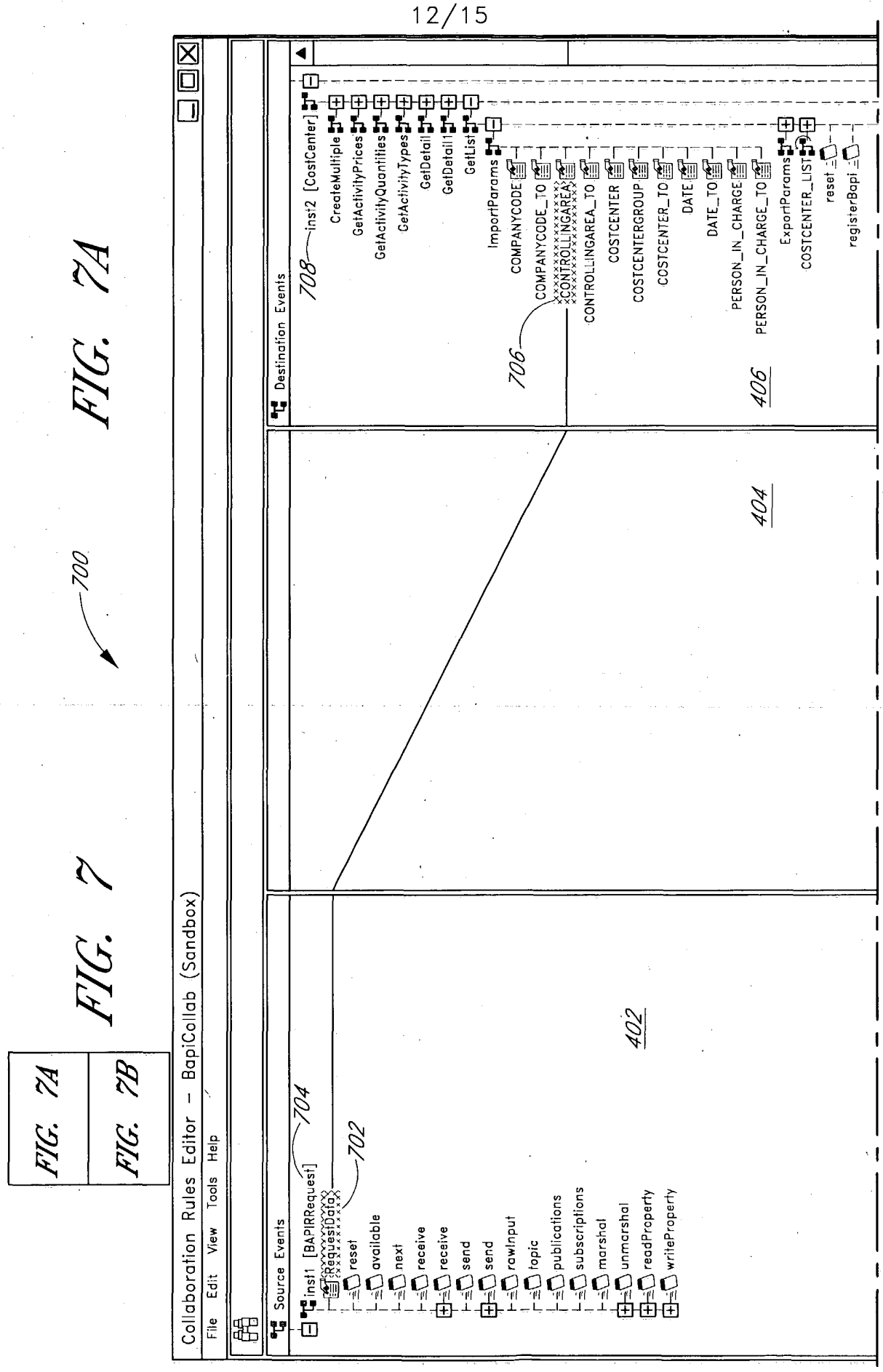

{} block
method
var
for
if
{} rule
switch
case
while
do
return
! throw
try
! catch
Business Rules
DocCollab01 : public class DocCollab01 extends DocCollab01Base implements
DocCollab01 : public DocCollab01()
{} rule : super();
executeBusinessRules : public boolean executeBusinessRules() throws Exception
retBoolean : boolean retBoolean = true;
{} rule : getDocInst02().getElement1().setField2(getDocInst01().getField1())
{} rule : getDocInst02().getElement1().setField3(getDocInst01().getElement
{} rule : getDocInst02().setField1(getDocInst01().getElement1().getField
return : return retBoolean;
userInitialize : public void userInitialize()
userTerminate : public void userTerminate()
408
Rule Properties
Description:
rule
Rule:
getDocInst02().setField1
(getDocInst01().getElement1
().getField3())
Documentation:
410
616
618
614

FIG. 6B

FIG. 7A
FIG. 7B

FIG. 7



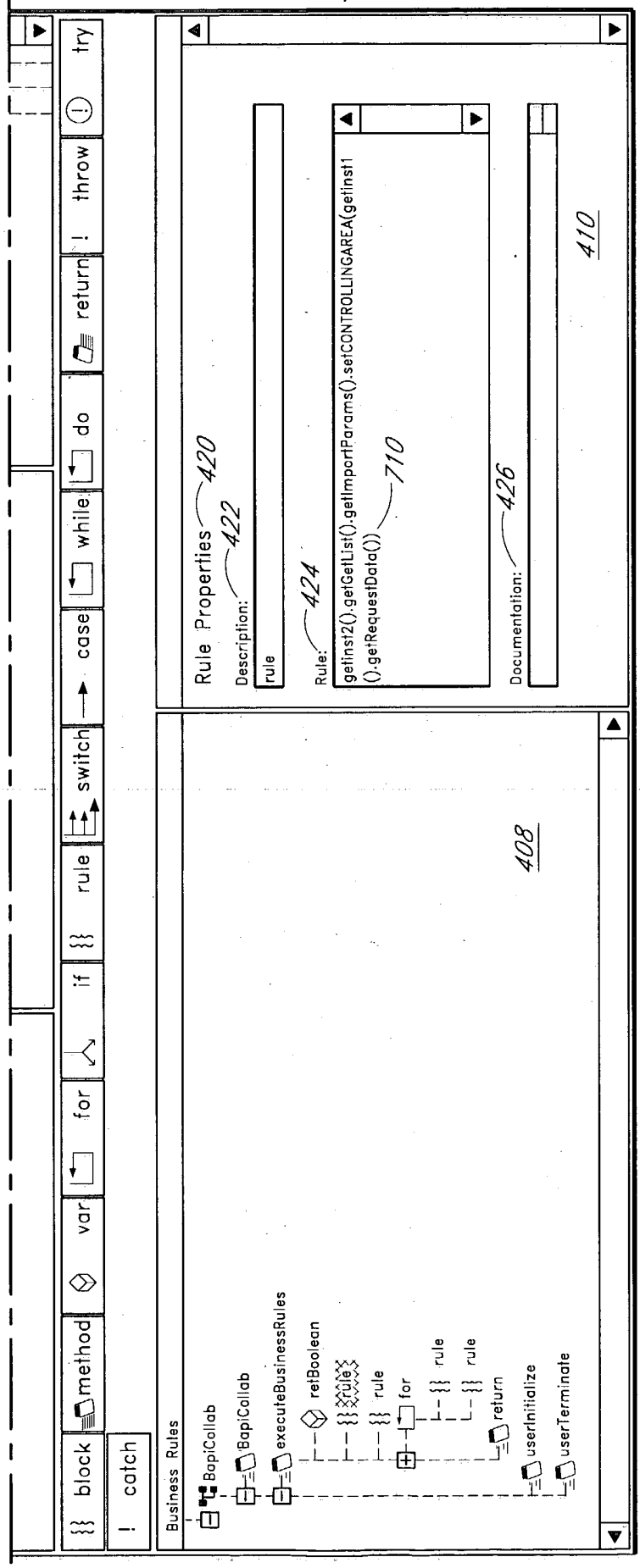
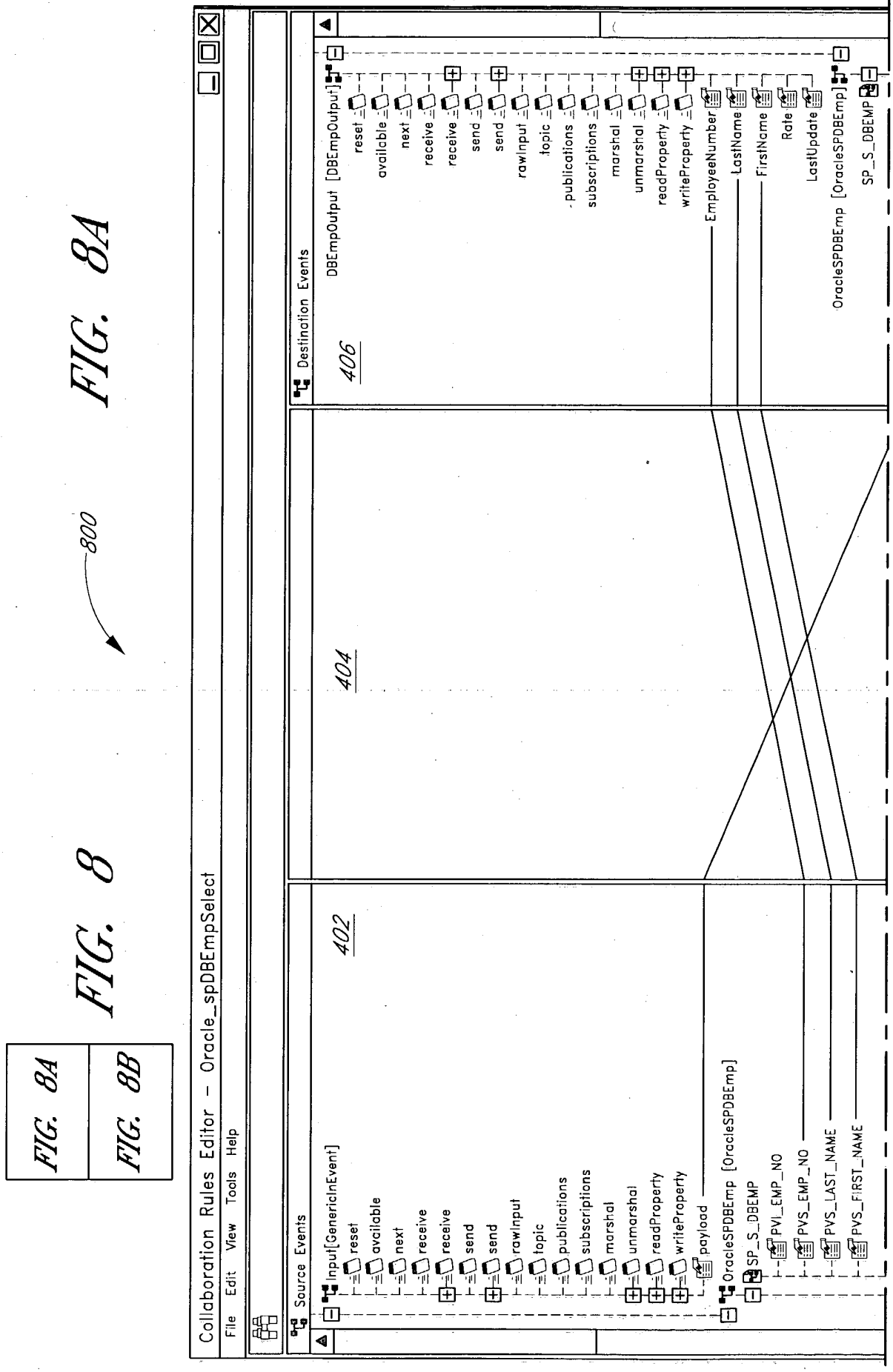

block
method
var
for
if
rule
switch
case
while
do
return
throw
try
catch
Business Rules
BapiCollab
BapiCollab
executeBusinessRules
retBoolean
rule
rule
for
rule
rule
return
userInitialize
userTerminate
408
Rule Properties
420
Description:
422
rule
Rule:
424
getInst2().getGetList().getImportParams().setCONTROLLINGAREA(getInst1
().getRequestData())
710
Documentation:
426
410

FIG. 7B

FIG. 8A
FIG. 8B

FIG. 8



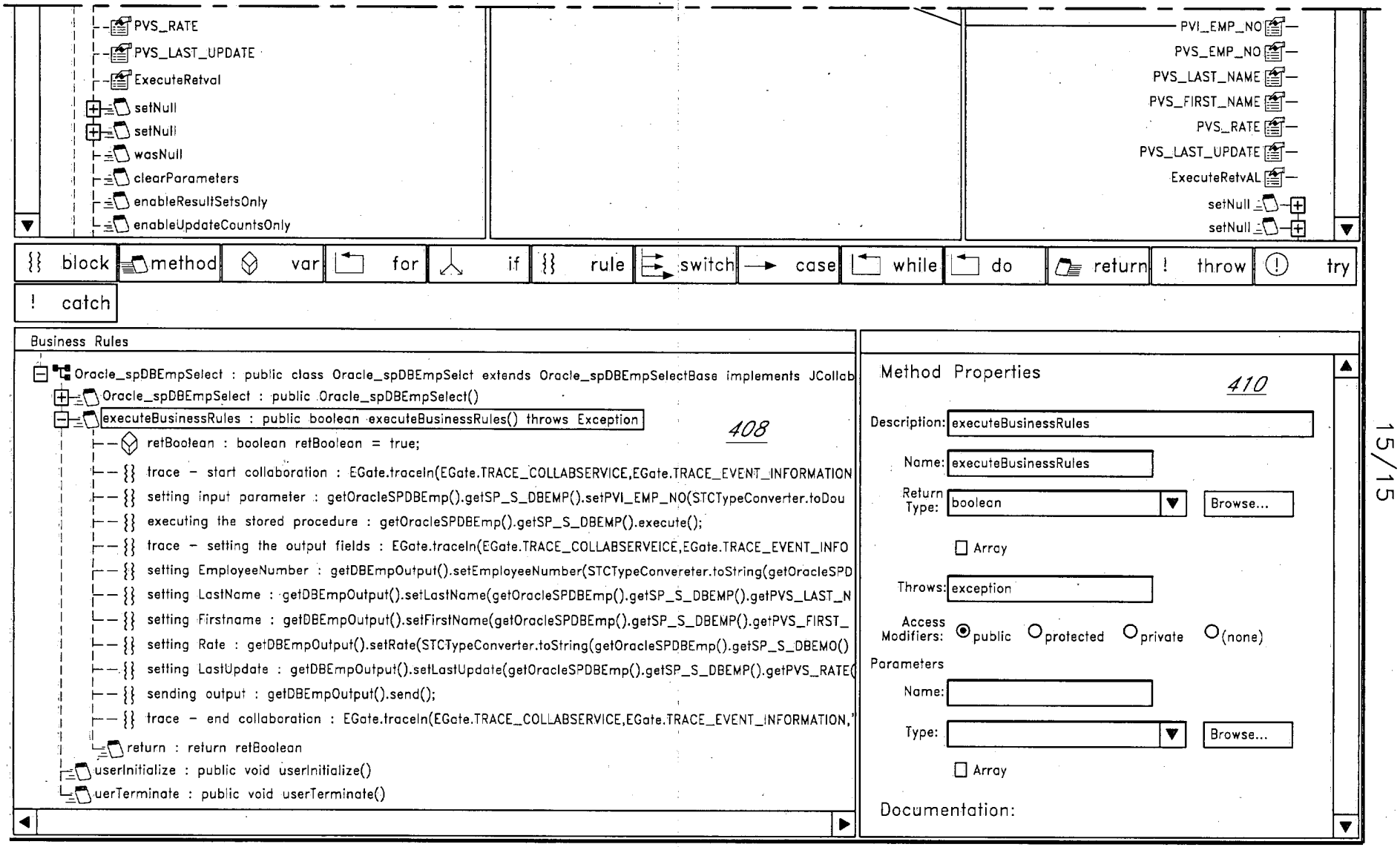

PVS_RATE
PVS_LAST_UPDATE
ExecuteRetval
setNull
setNull
wasNull
clearParameters
enableResultSetsOnly
enableUpdateCountsOnly
PVI_EMP_NO
PVS_EMP_NO
PVS_LAST_NAME
PVS_FIRST_NAME
PVS_RATE
PVS_LAST_UPDATE
ExecuteRetvAL
setNull
setNull
block
method
var
for
if
rule
switch
case
while
do
return
throw
try
catch
Business Rules
Oracle_spDBEmpSelect : public class Oracle_spDBEmpSelct extends Oracle_spDBEmpSelectBase implements JCollab
Oracle_spDBEmpSelect : public Oracle_spDBEmpSelect()
executeBusinessRules : public boolean executeBusinessRules() throws Exception
408
retBoolean : boolean retBoolean = true;
trace - start collaboration : EGate.traceIn(EGate.TRACE_COLLABSERVICE,EGate.TRACE_EVENT_INFORMATION
setting input parameter : getOracleSPDBEmp().getSP_S_DBEMP().setPVI_EMP_NO(STCTypeConverter.toDou
executing the stored procedure : getOracleSPDBEmp().getSP_S_DBEMP().execute();
trace - setting the output fields : EGate.traceIn(EGate.TRACE_COLLABSERVEICE,EGate.TRACE_EVENT_INFO
setting EmployeeNumber : getDBEmpOutput().setEmployeeNumber(STCTypeConvereter.toString(getOracleSPD
setting LastName : getDBEmpOutput().setLastName(getOracleSPDBEmp().getSP_S_DBEMP().getPVS_LAST_N
setting Firstname : getDBEmpOutput().setFirstName(getOracleSPDBEmp().getSP_S_DBEMP().getPVS_FIRST_
setting Rate : getDBEmpOutput().setRate(STCTypeConverter.toString(getOracleSPDBEmp().getSP_S_DBEMO()
setting LastUpdate : getDBEmpOutput().setLastUpdate(getOracleSPDBEmp().getSP_S_DBEMP().getPVS_RATE(
sending output : getDBEmpOutput().send();
trace - end collaboration : EGate.traceIn(EGate.TRACE_COLLABSERVICE,EGate.TRACE_EVENT_INFORMATION,"
return : return retBoolean
userInitialize : public void userInitialize()
uerTerminate : public void userTerminate()
Method Properties
410
Description: executeBusinessRules
Name: executeBusinessRules
Return Type: boolean
Browse...
Array
Throws: exception
Access Modifiers: public protected private (none)
Parameters
Name:
Type:
Browse...
Array
Documentation:

FIG. 8B